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**From:** Bowen, Ian [Bowen.Ian@epa.gov]  
**Sent:** 12/13/2017 10:37:05 PM  
**To:** Vranka, Joe [vranka.joe@epa.gov]  
**CC:** Wall, Dan [wall.dan@epa.gov]  
**Subject:** RE: UAO Scope

Thank you very much! This is most helpful!

Cheers,

Ian

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**From:** Vranka, Joe  
**Sent:** Wednesday, December 13, 2017 2:31 PM  
**To:** Bowen, Ian <Bowen.Ian@epa.gov>  
**Cc:** Wall, Dan <wall.dan@epa.gov>  
**Subject:** RE: UAO Scope

Hi, Ian:

The links below should take you to SEMS documents for the Smurfit-Stone Mill site, ACM Smelter and Refinery site, and Anaconda Aluminum Columbia Falls Reduction Plant site AOCs and UAOs for RI/FS work. Some include statements of work and some include work plans.

<https://semspub.epa.gov/work/08/1764729.pdf> - Smurfit-Stone Mill AOC and Work Plan for RI/FS

<https://sems.epa.gov/work/1513197651414/08-1198714.pdf> - ACM Smelter Special Notice letter with model

AOC and SOW

<https://sems.epa.gov/work/1513197651414/08-1212504.pdf> - signed AOC and SOW for ACM Smelter OU1

RI/FS with Atlantic Richfield Co.

<https://sems.epa.gov/work/1513197651414/08-1248858.pdf> - Unilateral Administrative Order and SOW for

ACM Smelter OU1 RI/FS to BNSF

<https://sems.epa.gov/work/1513197651414/08-1719917.pdf> - Administrative Order on Consent with Columbia

Falls Aluminum for RI/FS

and RI/FS work plan <https://sems.epa.gov/work/1513197651414/08-1719918.pdf>

Please let me know if you have any questions or if you require additional information. If you need more detailed information, the RPMs and site attorneys for the respective sites are:

Smurfit-Stone Mill – Sara Sparks, RPM, Amelia Piggot, Attorney

ACM Smelter and Refinery – Charlie Coleman, RPM, Doug Naftz, Attorney

Columbia Falls Aluminum – Mike Cirian, RPM, Mark Chalfant, Attorney

Thanks,

Joe

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**From:** Bowen, Ian  
**Sent:** Tuesday, December 12, 2017 7:41 AM  
**To:** Vranka, Joe <vranka.joe@epa.gov>  
**Cc:** Wall, Dan <wall.dan@epa.gov>  
**Subject:** UAO Scope

Hello Joe,

I do not believe we have met. So first I'll introduce myself, I'm a hydrogeologist in R8. I joined the program in July 2015. However, I only have a couple of Montana sites and I have yet to make it to Helena. Hopefully we can rectify that soon.

I am writing in response to the email Dan Wall (my supervisor) sent last week requesting example UAO scopes. I have tracked down several of the model documents and they are very helpful. I was hoping to put my hands on a real SOW for an UAO RI scope as those seem more rare and I did not find a model document for that. I did find the model AOC RI/FS SOW helpful.

My goal in finding an example scope is to look at example language that may assist with walking the line between prescriptiveness and goal setting. We are expecting an uncooperative situation with the PRP and therefore we want to be prescriptive about some things but still give the flexibility to fill any unanticipated data gaps. Any assistance you could provide would be appreciated.

Thank you,

Ian Bowen, R.G.  
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